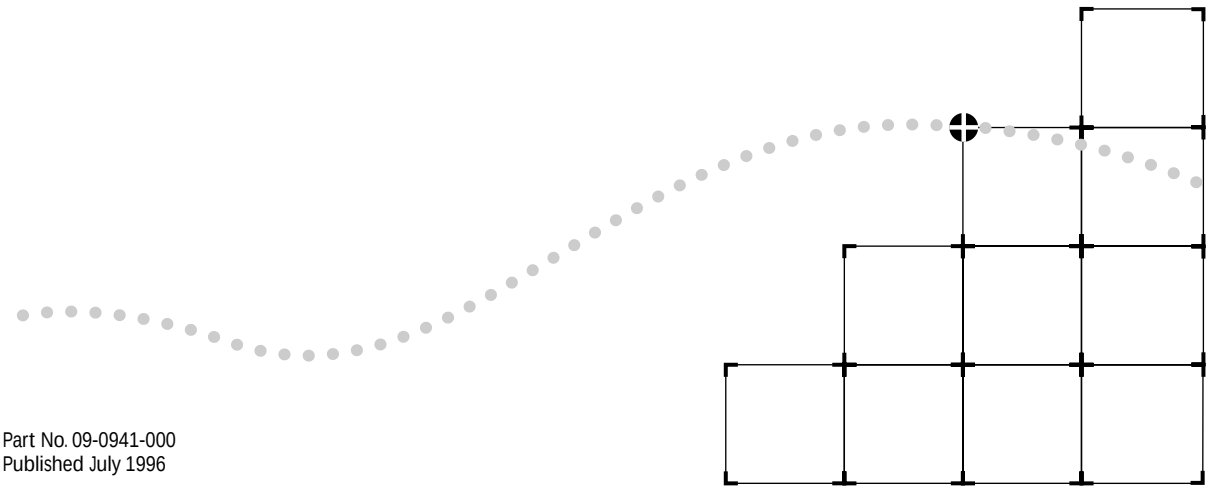
SUPERSTACK™ II HUB 100 MANAGEMENT UNIT USER GUIDE

A member of the 3Com® SuperStack II System



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1 INTRODUCTION

The 3Com® SuperStack™ II Hub 100 Management Unit provides Simple Network Management Protocol (SNMP) management capabilities for 3Com's SuperStack II Hub 100 repeater units. The Management Unit is a member of the SuperStack II family of stackable network devices. A managed stack is composed of up to seven repeaters (hubs) and one Management Unit, which can be placed anywhere in the stack. The stack can also optionally include up to two SuperStack II Redundant Power System (RPS) units, which ensure fail-safe operation and constant power to the stack.

The Management Unit supports 100BASE-T Fast Ethernet, which is an extension of the Ethernet IEEE 802.3 specifications. The 100BASE-T specification supports the following 100 Mbps media options:

- 100BASE-TX (two-pair Category 5 UTP cabling)
- 100BASE-T4 (four-pair Category 3, 4, or 5 UTP cabling)
- 100BASE-FX (two-strand fiber cabling)

This guide discusses only the SuperStack II Hub 100 Management Unit. For detailed information on the 3Com SuperStack II Hub 100 T4, Hub 100 TX, or the 100BASE-TX, 100BASE-T4, and 100BASE-FX transceiver interface modules, refer to the *SuperStack II Hub 100 T4 User Guide* or the *SuperStack II Hub 100 TX User Guide*.

General Description

The front panel of the SuperStack II Hub 100 Management Unit, shown in Figure 1-1, has a series of LEDs that supply status, unit, and environmental information. A *Reset* button is located to the left of the LEDs. (Refer to Chapter 2 for the interpretation of the LEDs.)

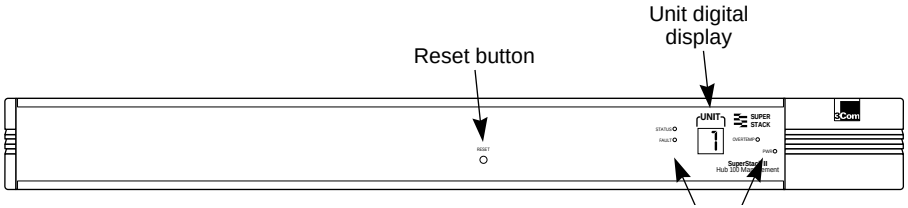

Figure 1-1 Front Panel of the SuperStack II Hub 100 Management Unit

Figure 1-2 shows the rear panel of the Management Unit. The two expansion connectors are used for connecting the Management Unit to hubs to create a hub stack.

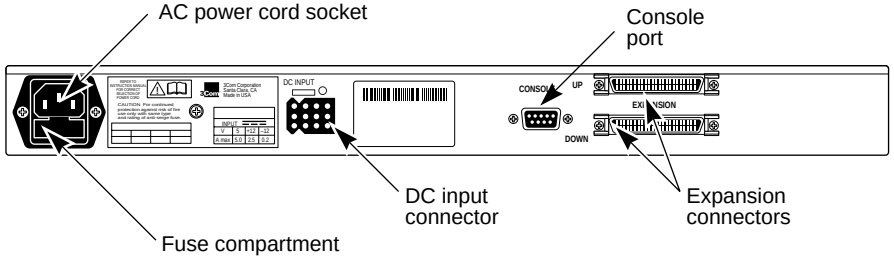

Figure 1-2 Rear Panel of the SuperStack II Hub 100 Management Unit

The three-pronged socket lets you attach a 100–240 V AC power cord to the unit. Alternatively, power can be supplied through a 3Com Redundant Power System connected to the DC input connector. A 250 V, 2 A fuse is located in the unit's AC receptacle.

The console port is an RS-232 serial port that can connect to a local VT100 console or a modem-based remote console.

You can mount the Management Unit in a 19-inch standard rack with SuperStack II Hub 100 repeater units. A rack-mounting kit is supplied with each Management Unit. Refer to Chapter 2 for installation instructions.

System Overview

The SuperStack II Hub 100 Management Unit supports the following features. They are briefly defined below.

- SNMP management
- Management console interface
- Warm-swap capability

SNMP Management

The Management Unit supports management through SNMP over the standard TCP/IP protocol suite. You can manage the connected hub stack from any SNMP-based management system.

Refer to Chapter 5 for details on the management functions of the Management Unit.

Management Console Interface

The management console interface is a forms-based user interface that is accessible through the RS-232 console port and Telnet connections.

An additional management interface, designated the "primitive console," is also supported through the RS-232 console port connection. You can use the primitive console to reset the console port parameters, download a new software image, and change system loader parameters.

Refer to Appendix B for descriptions of the management console interface forms and the functions of the primitive console commands.

Warm-Swap Capability

The SuperStack II Hub 100 Management Unit permits warm-swapping of components. Warm-swapping denotes the capability to disconnect the expansion cable from a single stacked component without having to power down the component or the stack. This allows you to add or remove components in a stack without damage to any of the other components. Adding or removing a component from a stack changes the unit ID of all components below it. In a managed stack, you may then need to reconfigure management software parameters that reference unit IDs. See the section "Unit Digital Display" in Chapter 2 for further information on unit ID and component numbering.

Some packet loss can result if network activity occurs during warm-swapping.